

Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR §1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for detecting malicious scripts using a static analysis, comprising the step of:

checking a script to determine whether a series of methods constructing a malicious code pattern exist and whether parameters and return values associated between the methods that satisfy a generated matching rule match each other,

wherein the checking step comprises the steps of:

a) classifying, by modeling a malicious behavior to include unit behaviors each of which is composed of sub-unit behaviors or one or more method calls,

b) generating [[a]] the matching rule by converting each identified unit behavior and method call sentence into said matching rule for defining sentence types to be detected in script codes, said matching rule comprising rule identifiers and sentence patterns to be detected and

c) generating at least one relation rule for defining a relation between rule variables used in the sentences satisfying the matching rule by analyzing a relation between the rule identifiers used in the sentences patterns satisfying the matching rule;

d) generating a set of instances of the matching rule by:

i) searching for code patterns matched with the matching rule from a relevant script code to be detected,

ii) extracting parameters of functions used in the searched

code patterns; and

iii) storing the extracted parameters in the rule variables; and

e) generating instances of the relation rule by searching for instances of the matching rule satisfying the relation rule from the set of the generated instances of the matching rule through a relation analysis process by continuously checking whether previously generated instances of the relation rule associated with a currently generated instance of the relation rule are satisfied.

2. (Previously Presented) The method according to claim 1, wherein the matching rule and sentence patterns have the same grammar as a language of the scripts to be detected.

3. (Original) The method according to claim 2, wherein the relation rule further includes preconditions (Precond) in which conditions that should be satisfied prior to the conditions in the conditional expressions are described, and the action expressions describe contents that will be executed when both the conditional expressions and the preconditions are satisfied.

4. (Previously Presented) The method according to claim 1, further comprising the step of converting the script into a format suitable for static analysis.

5. (Previously Presented) The method according to claim 1, further comprising the step of reporting identified instances of the matching rule and relation rule in a result report process.

6. (Previously Presented) The method according to claim 1, wherein the relation rule comprises conditional expressions (Cond) in which conditions satisfying the relevant rule are described, and action expressions (Action) in which contents to be executed are described when the conditions in the conditional expressions are satisfied.